



Appendix H

Insecticide Labels and MSDSs

Contents

Insecticide Labels and Material Safety Data Sheets (MSDSs)	H-1
Insecticide Distributors	H-1

Insecticide Labels and Material Safety Data Sheets (MSDSs)

By reference, the following labels and MSDSs are part of the *Gypsy Moth Program Manual*:

- ◆ Labels of insecticides registered for use against the gypsy moth
- ◆ MSDSs of insecticides registered for use against the gypsy moth



This Appendix supplies additional information about the various insecticides used to control the gypsy moth. Mention of these products and companies is *not* to be considered an endorsement. These products and companies are mentioned merely as a convenience. Other products, which are *not* mentioned, may be available.

As a safety precaution, read and follow all label directions.

Besides label directions, follow all pertinent State and Federal laws.

Labels and MSDSs are available at the following websites:

<http://www.greenbook.net>

<http://www.cdms.net>

Insecticide Distributors

The list of distributors which follows is accurate as of June, 2003. The list of distributors is **not** complete and **could not** be complete. Companies are often purchased by other companies and names change, so check the Internet for the latest information.

For several reasons labels and MSDSs of insecticides that are effective against the gypsy moth are **not** included in the *Gypsy Moth Program Manual*:

- ◆ The registered insecticides often change. The Environmental Protection Agency requires that users of pesticides check the current label. This checking must be constant; therefore, the “storing” of labels and MSDSs in an appendix is to be avoided. (However, if a program is in progress, place the current label and MSDS in the appendix.)
- ◆ The companies making the formulation often change.
- ◆ At any given time a sizable number of insecticides are effective against the gypsy moth. The labels and MSDSs would fill a sizable volume by themselves.
- ◆ The current labels and MSDSs are often easily available on the internet. The internet should be accessed to obtain the current label.

Aventis Crop Science

P.O. Box 12014
2 T. W. Alexander Drive
Research Triangle Park, NC 27709
Tel: 800-334-9745 (For product use information)
Tel: 919-549-2000

Website: <http://www.greenbook.net> (For labels)

Insecticides: Carbaryl is the active ingredient in several formulations:

- ◆ Sevin[®] XLR PLUS EPA Reg. No. 264-333
- ◆ Sevin[®] 80S EPA Reg. No. 264-316
- ◆ Sevin[®] 80 WSP EPA Reg. No. 264-526

Larval Control: Among the formulations containing carbaryl are (1) Sevin[®] XLR PLUS, a suspension of microfine Sevin carbaryl insecticide in an aqueous medium, for forested areas and rangeland trees, (2) Sevin[®] 80, a dry powder formulation, for forested areas, parks, Christmas trees and rangeland trees, and (3) Sevin[®] WSP, a dry powder formulation in water-soluble paks, for forested areas and rangeland trees.

Comment: Read label to determine the best formulations for each situation.

**Bayer
Corporation**

P. O. Box 4913
8400 Hawthorne Road
Kansas City, MO 64120
Tel: 800-842-8020
Emergency Number: 800-414-0244

Website: <http://www.bayerus.com>

Insecticide: Baythroid® 2 EPA Reg. No. 3125-351

Larval Control: The active ingredient in Baythroid® 2 is cyfluthrin.

Comments: According to information from W. McLane, use of Baythroid® 2 to control gypsy moth larvae on Christmas trees in Michigan is permitted (this is not listed on the label).

Certis USA

9145 Guilford Road, Suite 175
Columbia, MD 21046
Tel: 800-847-5620
Emergency Number: 800-255-3924

Website: <http://www.certisusa.com>

Insecticide: Two formulations are available:

- ◆ Thuricide® 48LV EPA Reg. No. 70051-57
- ◆ Thuricide® 76LV EPA Reg. No. 70051-72 (?)

Larval Control: The active ingredient in Thuricide® is *Bacillus thuringiensis* var. *kurstaki*.

Comments: Thuricide® 48LV is labeled for control of gypsy moth either by aerial application or by ground application.

**Dow
AgroSciences**

P. O. Box 681428
9330 Zionsville Road
Indianapolis, IN 46268-1189
Tel: 800-255-3726
Fax: 317-337-3000

Website: <http://www.dowagro.com>

Insecticide: Conserve® SC EPA Reg. Number 62719-291

Larval Insecticide: Spinosad is the active ingredient in Conserve® SC.

Comments: For effective control of gypsy moth larvae, apply when larvae are small and all eggs have hatched (Conserve® SC label, 2000).

Insecticide: Comfirm® EPA Reg. No. 707-238

Larval Insecticide: The active ingredient in Comfirm® T/O is tebufenozide.

Comments: For effective control of gypsy moth larvae, apply when larvae are small (1st, 2nd, and 3rd instars). For trees and shrubs in nurseries and Christmas tree farms (Confirm® T/O label, 2001).

Insecticide: Chlorpyrifos is the active ingredient in several formulations:

- ◆ Dursban® PRO EPA Reg. No. 62719-166
- ◆ Dursban® 50W EPA Reg. No. 62719-72
- ◆ Lorsban® 4E EPA Reg. No. 62719-220

Larval Insecticide: Chlorpyrifos is the active ingredient in Dursban® and Lorsban®.

Comments: Dursban® 50W is labeled for use on ornamentals grown in nurseries (Dursban® 50W label, 0-10-01). Lorsban® 4E is labeled for use on gypsy moth on Christmas trees (Lorsban® 4E label, 10-18-00).

Insecticide: SpinTor® 2SC EPA Reg. No. 62719-294

Larval Insecticide: The active ingredient in SpinTor® 2SC is spinosad.

Comments: For effective control of gypsy moth larvae, apply when larvae are small or just hatching. For conifers, including Christmas trees, and deciduous trees in plantations (SpinTor® 2SC label, 07-10-01).

Gowan Company

P. O. Box 5569
Yuma, AZ 85366-5569
Tel: 520-783-8844
800-883-1844 ext. 2
Fax: 928-343-9255
Emergency Number: 520-344-1014

Website: <http://www.gowanco.com>

Insecticide: Imidan[®] 70-W EPA Reg. No. 10163-169

Larval Control: The active ingredient in Imidan[®] 70-W is phosmet, an organophosphate insecticide.

Comments: Imidan[®] 70-W is labeled for control of gypsy moth on ornamentals, deciduous trees, and woody evergreens, including conifers growing in Christmas tree plantations.

**Hercon
Environmental**

Aberdeen Road
Emigsville, PA 17318
Tel: 717-764-1192 ext. 262
Emergency Number: 717-764-1192

Website: <http://www.herconenviron.com>

Insecticide: Disrupt[®] II EPA Reg. No. 1830-55

Adult Control: Disrupt[®] II controls gypsy moth by interfering with mating in low-level populations.

**Olympic
Horticultural
Products**

P. O. Box 1885
Bradenton, FL 34206-1885
Tel: 941-776-3636
Emergency Number: 800-414-0244

Website: <http://www.olympichort.com>

Insecticide: Decathlon[®] 20WP EPA Reg. No. 3125-430-59807

Larval Control: The active ingredient in Decathlon[®] 20 is cyfluthrin.

Comments: Decathlon[®] 20WP is labeled for control of gypsy moth larvae on ornamentals and nursery stock.

**Rohm and
Haas**

100 Independence Mall West
Philadelphia, PA 19106-2399
Tel: 215-592-3000
Fax: 215-592-3377

Website: <http://www.rohmhaas.com>

Insecticide: Mimic™ 2LV EPA Reg. No. 707-270

Larval Control: The active ingredient is tebufenozide.

Comments: This insecticide should be applied to the early instar (1st, 2nd, or 3rd) larvae; foliage development should be a minimum of 20% (Mimic™ 2LV label, 2001).

**Stollar
Enterprises,
Inc.**

8582 Katy Freeway, Suite 110
Houston, TX 77024
Tel: 713-461-1493

Website: www.keylate.com

Insecticide: Golden Pest Spray Oil

Egg Mass Control: Applied to egg masses, Golden Pest Spray Oil will prevent egg hatch.

Comments: For egg masses deposited on trees, ground litter, outdoor furniture, recreation vehicles, firewood, nursery stock, vessels, aircraft, and other forms of transportation.

**UAP (United
Agri Products)**

419 18th St.
Greeley, CO 80631
Tel: 970-356-4400 (For information)

Website: <http://www.greenbook.net> (for labels)

Insecticide: Carbaryl 4L EPA Reg. Number: 34704-447
(and Malathion ULV?)

Larval Control: With carbaryl, application to the early instars will be more effective.

Comments: Carbaryl is highly toxic to honey bees and to many aquatic organisms.

**Uniroyal
Chemical**

World Headquarters
Middlebury, CT 06749
Tel: 203-573-3025
Emergency Number: 203-723-3670

Website: <http://www.uniroyalchemical.com/cropidex.html>

Insecticides: Dimilin® 4L EPA Reg. No. 400-474
Dimilin® 25W EPA Reg. No. 400-465

Larval Control: Dimilin® 4L and 25W are for use on early instars prior to full leaf expansion (5-20%). The active ingredient is diflubenzuron.

Comments: Due to toxicity to aquatic invertebrate animals, Dimilin® is a restricted use pesticide. Section on each label refer to the use of Dimilin® 4L and 25W in gypsy moth quarantine programs.

Dimilin® (diflubenzuron) is more effective against gypsy moth than other control materials in this manual. If it is environmentally safe to use Dimilin® (consult the label), Dimilin® will be the first choice.

**United
Horticultural
Supply**

9335 Elm Court
Denver, CO 80260
Tel: 800-873-3689
Emergency Number: 800-424-9300

Website: <http://www.uhsonline.com>

Insecticide: Dursban® TNP EPA Reg. No. 34704-66-65783

Larval Control: The active ingredient in Dursban is chlorpyrifos.

Comments: Dursban® TNP is labeled for use in commercial nurseries to control gypsy moth larvae.

**USDA Forest
Service**

180 Canfield Street
Morgantown, WV 26505
Tel: 304-285-1566
Emergency Number: 203-230-4325

E-mail: rreardon@fs.fed.us

Insecticide: Gypchek[®] EPA Reg. No. 27586-2

Larval Control: The active ingredient in Gypchek[®] is the gypsy moth nucleopolyhedrosis virus (NPV), Hamden strain.

Comments: For more information on Gypchek[®] consult the following website: <http://infoventures.com/e-hlth/pesticide/pest-fac.html>

**Valent
BioSciences
Corporation**

870 Technology Way
Libertyville, IL 60048
Tel: 800-323-9597
Fax: 847-938-6291

Website: <http://www.valentbiosciences.com>

Insecticides: Foray[®] 48B EPA Reg. No. 73049-46
Foray[®] 48F EPA Reg. No. 73049-35
Foray[®] 76B EPA Reg. No. 73049-49

Larval Control: *Bacillus thuringensis* subsp. *kurtaki* (Btk), an important biological agent, is the active ingredient in Foray[®] 48B, Foray[®] 48F, and Foray[®] 76B.

Comments: This biological insecticide which controls the larval stage of gypsy moth will kill some other butterfly and moth species.

**Valent USA
Corporation**

P. O. Box 8025
133 N. California Blvd., Suite 600
Walnut Creek, CA 94596-8025
Tel: 800-89-VALENT
Fax: 925-256-2700
Emergency Number: 800- 892-0099

Website: <http://www.valentpro.com>

Insecticides: Orthene® Turf, Tree, and Ornamental Spray 75
EPA Reg. No. 59639-26

Orthene® Turf, Tree, and Ornamental Spray 97
EPA Reg. No. 59639-91

Larval Control: Acephate is the active ingredient in Orthene® Turf, Tree, and Ornamental Spray (OTTO Spray).

Comments: In the OTTO Spray, acephate is labeled for the control of gypsy moth larvae on trees and shrubs. Acephate is toxic to several insects.

